

KEY: FINANCIAL GUARANTORS

RS LEAD TEAM PARTICIPANT

CONTRACTUAL COUNTERPARTY





Miami Beach Trans Master Plan
Passenger Comfort
Aesthetic Sensitivity
Transit & Municipal Identity
Convention Center - Area Attractions

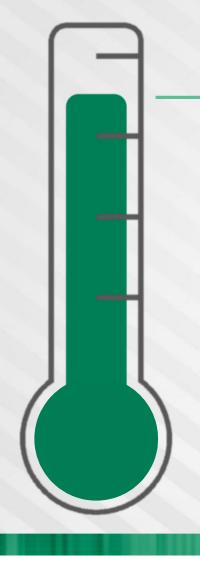
Sea Level Rise and Flooding
Interoperability
GPS Technology
Low Floors / Disabled Accessible
Modern, Innovative Technology

Personal Experience & Team Synergy
Operator-led
P3 Financing Expertise
Rail Systems in Urban Setting
Fully Catenary-less System









80%

OF RESIDENTS FAVOR A STREETCAR IF COMPLETELY WIRELESS

CITY OF MIAMI BEACH VOTERS POLL - JUNE 2015 - FREDERICK POLLS

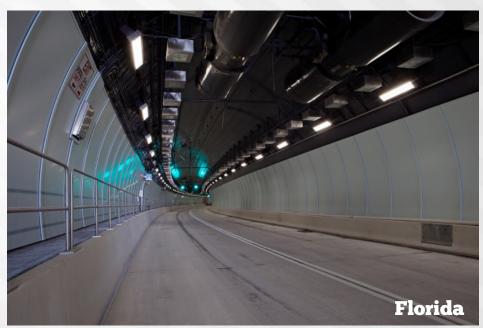




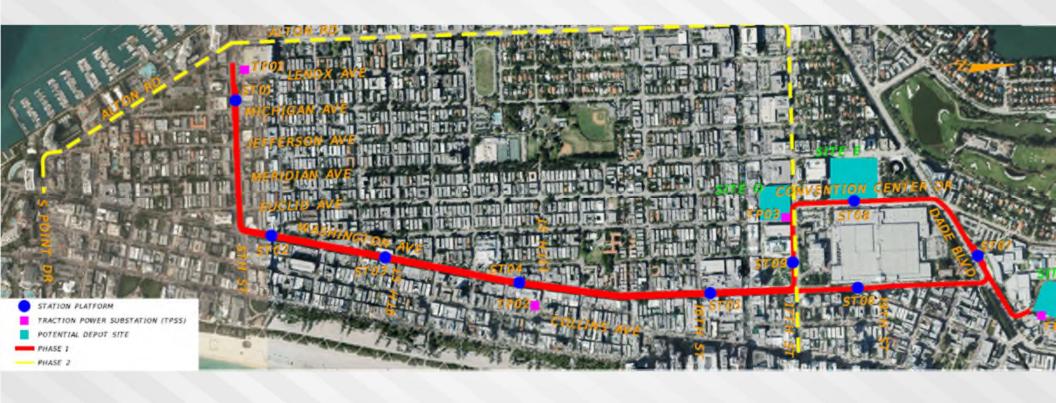
JACOBS







DESIGN - ALIGNMENT



DESIGN - TYPICAL SECTIONS





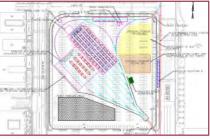
DESIGN – DEPOT LOCATIONS &

LAYOUTS

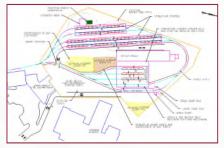
Site D Option 1

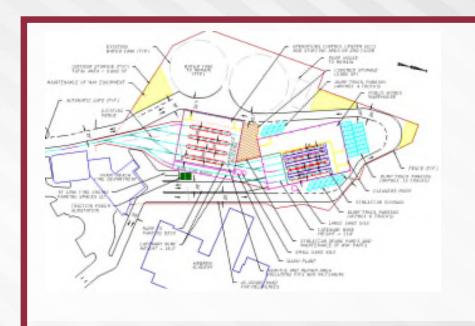


Site E Option 2



Site F Option 3





Site F
Option 4 (Preferred Choice June 6, 2016)
Storage space : 9 Streetcars indoor

CONCEPTUAL LAYOUTS TO BE REFINED DURING DESIGN

DESIGN - MAINTENANCE









DUBAI MAINTENANCE BUILDING



DESIGN - RESILIENCY - SLR/FLOODING/DRAINAGE



DESIGN - RESILIENCY - SLR/FLOODING/DRAINAGE





CUSTOMER FOCUSED DESIGN

DUBAI METRO

1/3 reduction in labor to operate, depot consolidation, 99.9% availability

Reduction in system design costs, integrated modes, operating costs

LUSAIL STREETCAR

ABU DHABI METRO & STREETCAR

Significant reduction in design & operating cost, increased performance

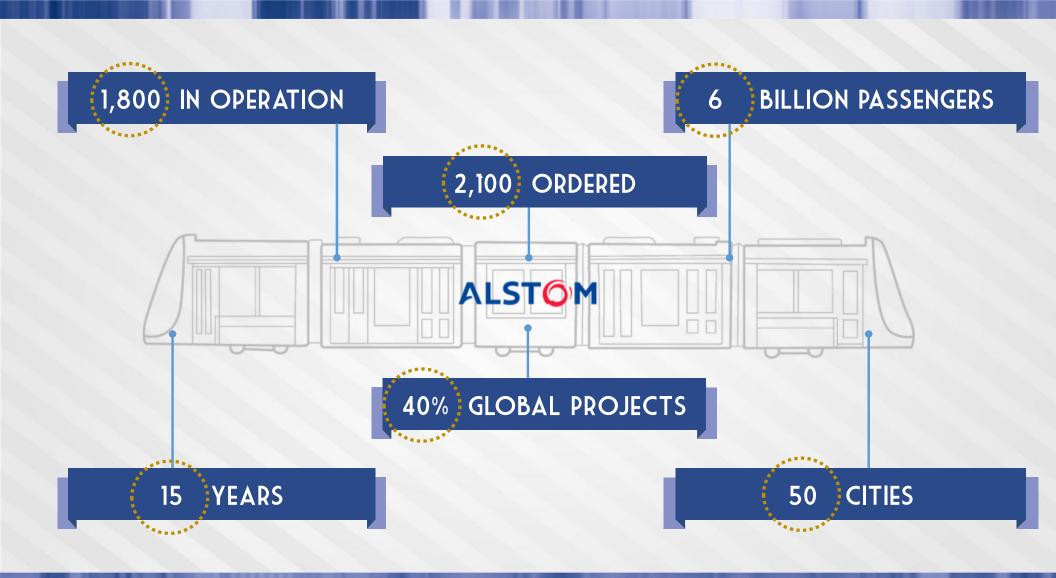
Developed OCC, signals, station enhancements, future proofed system

MANCHESTER



VEHICLES & TECHNOLOGY



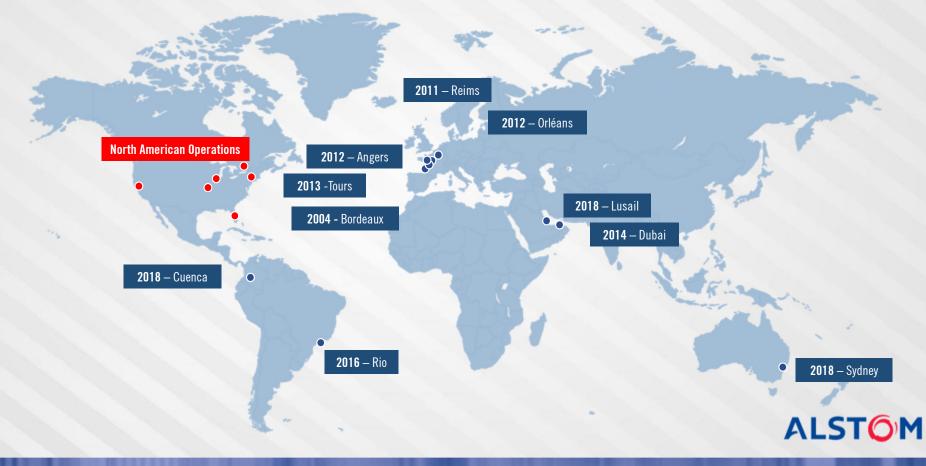


VEHICLES & TECHNOLOGY – STREETCARS TURNKEYS

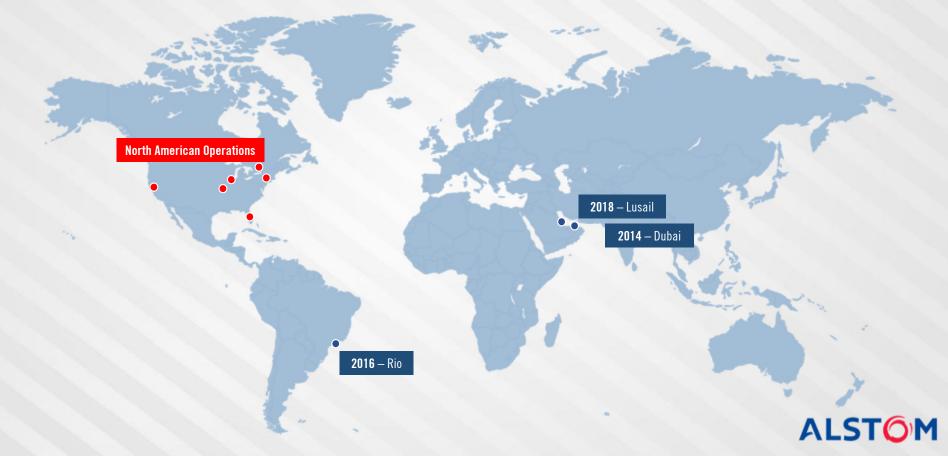


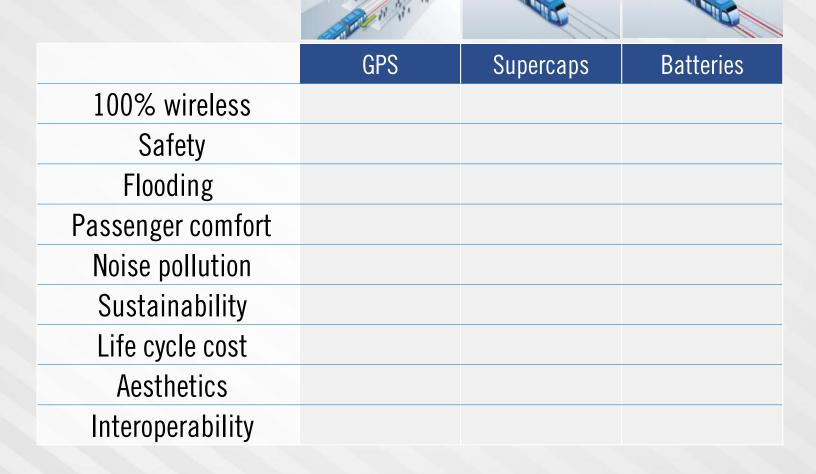


VEHICLES & TECHNOLOGY – GROUND POWER SUPPLY CITIES

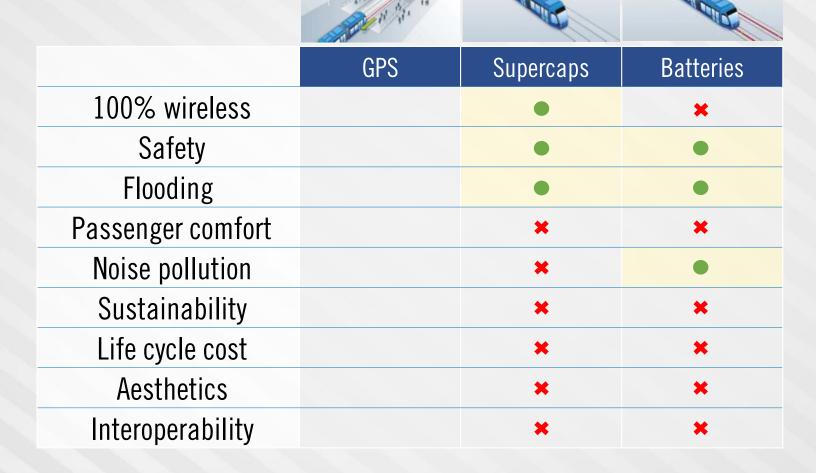


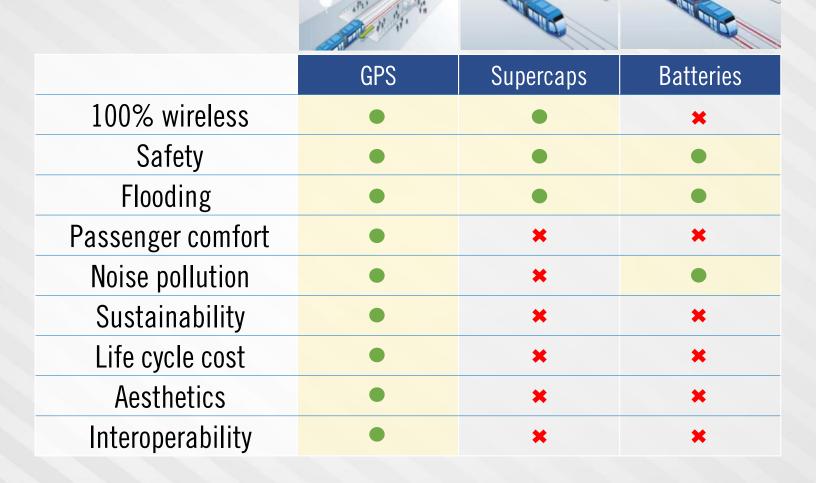
VEHICLES & TECHNOLOGY – 100% WIRELESS NETWORKS













Safety

Passenger Comfort

Aesthetics

Interoperability

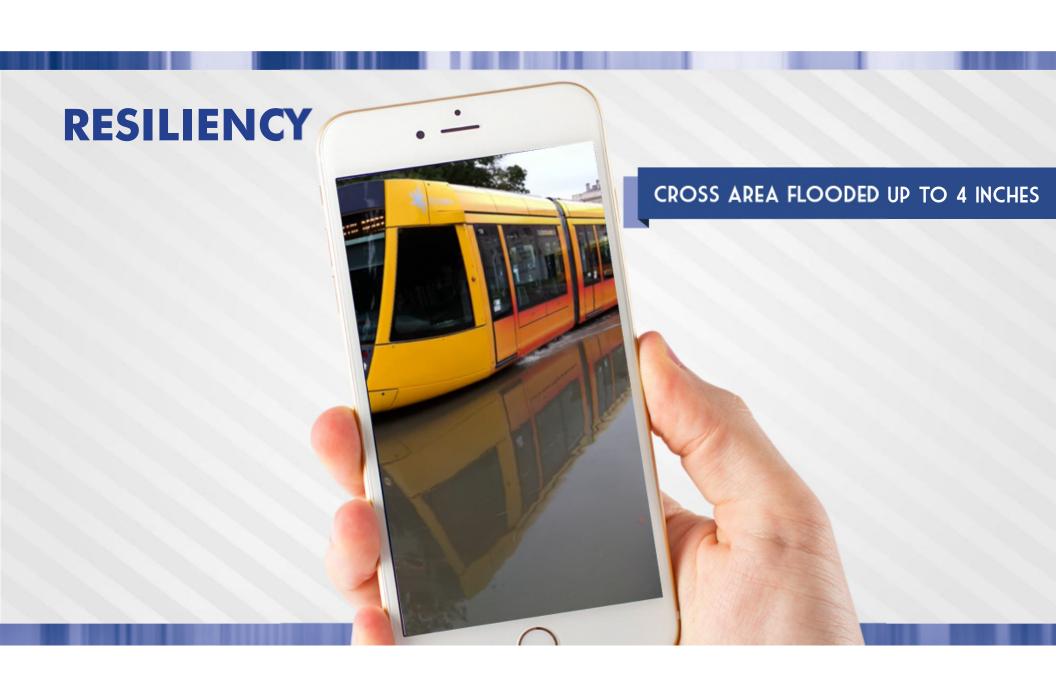
Reliability

BUSINESS AS USUAL











READY TO ROLL



READY TO ROLL





EXPERIENCE











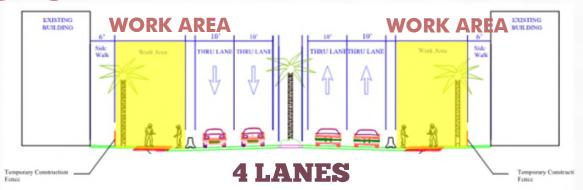






CONSTRUCTION – PROPOSED STAGING & WORK BLOCKS





1

CONSTRUCTION – PROPOSED WORK BLOCKS



1 Sidewalk Work (40 Days)



CONSTRUCTION – PROPOSED WORK BLOCKS



1 Sidewalk Work (40 Days)



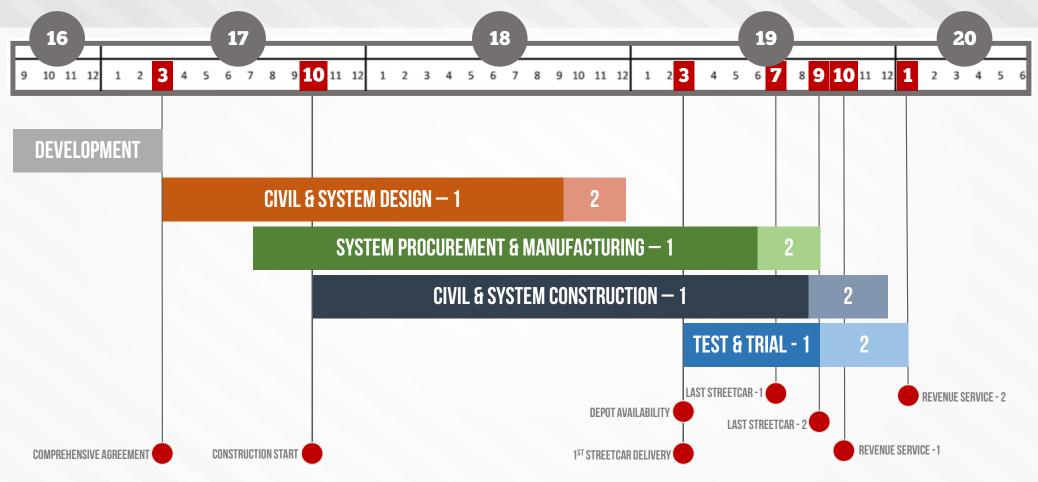
CONSTRUCTION – PROPOSED WORK BLOCKS



1 Sidewalk Work (40 Days)



CONSTRUCTION SUMMARY SCHEDULE







MOMENTS OF TRUTH

OUR PEOPLE

- · Driving people, not Streetcars
- Recruit for attitude. train for skills
- · Don't walk by, take responsibility
- Zero harm
- · Event last mile management
- · Chaperone program
- Adopt a stop
- · Meet the manager





















INFRASTRUCTURE AND SYSTEMS

- Contain 7.5-10 minute headways
- · Highly reliable assets Customer-focused design
- Consistent journey time
 Dynamic Safety Corridor
- ADA-compliant Streetcars, Stops
- · Every second counts

Journey Stimulus

2 More Choice

3 Seek information on and consider options

4 Travel to stops **5** Wait on stops

6 Board Streetcars 7 Journey

8 Alight Streetcars

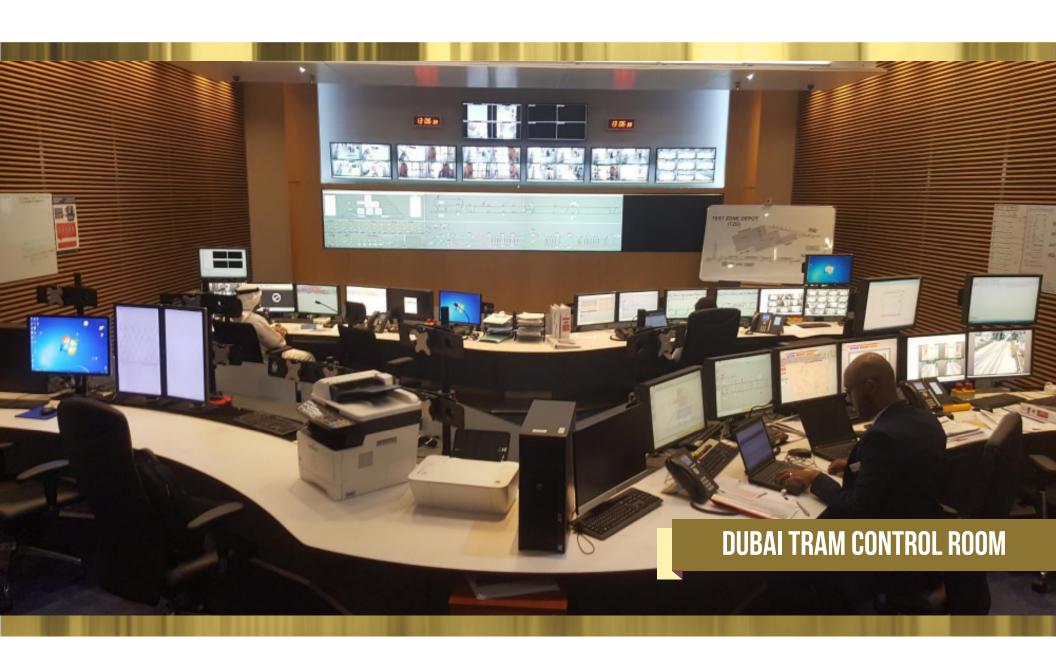
9 Travel from stops

10 Feedback

CUSTOMER SERVICE







PLANNED & UNPLANNED EVENTS

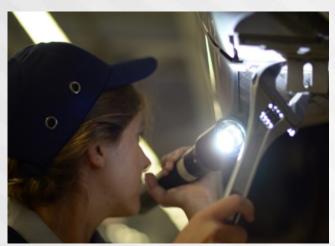
Planned Event - London Olympics 2012



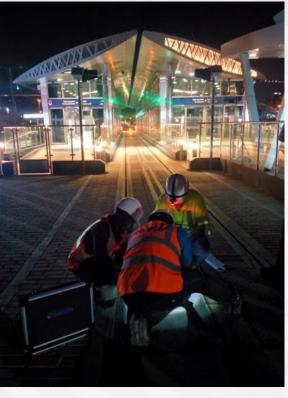
Unplanned Event - Dubai 2015



MAINTENANCE











Design & Build

Test & Trial

Revenue Service

MAINTENANCE – ASSET MANAGEMENT

Preventative Maintenance

Corrective Maintenance Records

Configuration & Modification Management

Overhauls & Renewals Activities

Obsolescence Management

Inventory Management

Maintenance Management System



INFRARED EXPERIENCE

25+
YEAR TRACK RECORD

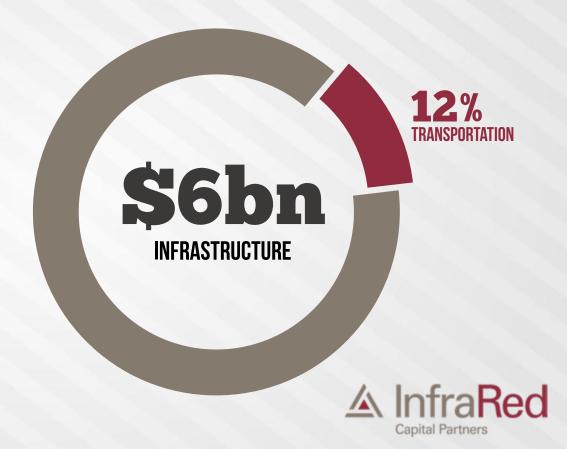
\$9bn EQUITY MANAGED

15 FUNDS

120 EMPLOYEES

300
TRANSACTIONS

175+
MANAGED ASSETS











SOURCES OF FUNDING



PUBLIC SUBSIDY



SENIOR DEBT



EQUITY

OPTIMIZING THE FINANCE SOLUTION

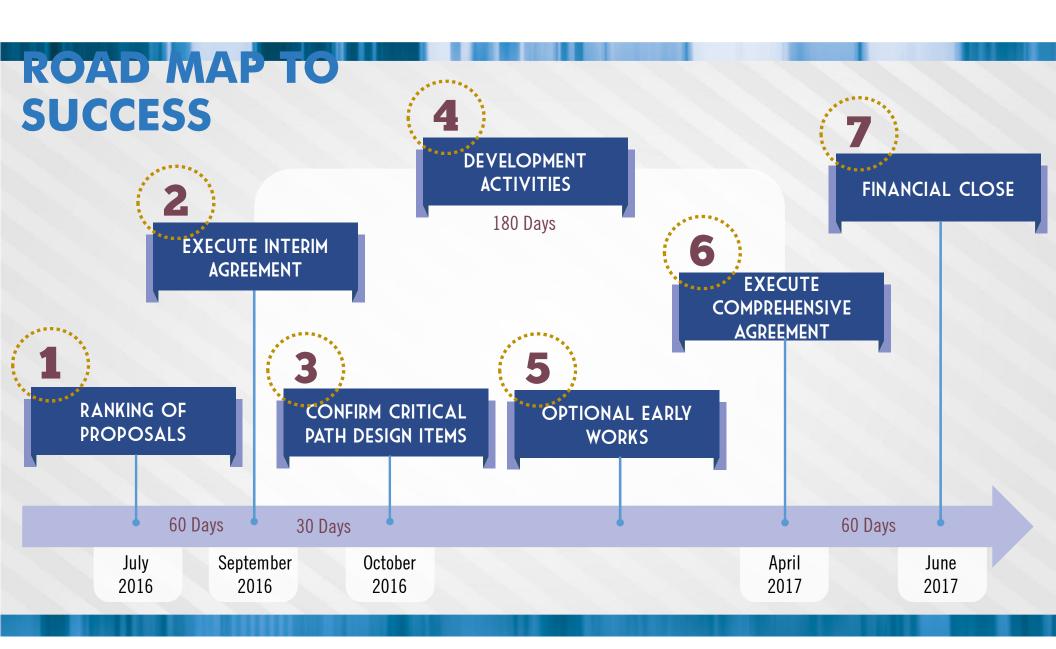
Timing of **Equity Contribution**

Senior Debt Amortization

Lifecycle Profile

Monetize **Advertising** Revenue

Delivery of **Additional Streetcars**





Inspired by Miami Beach Art Deco candy pastel palette. Acombination of gradients effects and graphic lines grid, for a magic city linking business, leisure and culture.



MAGICCITY

COLORS MOMENTUM

SUGARYPASTELS

TROPICAL









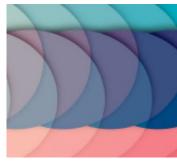








HAPPYANDSUNNY SUPERPOSITION FRESHGRADIENT EFFECTS



















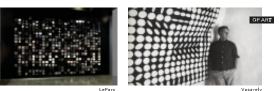


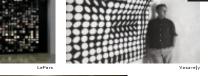




THEME 3 | CONTEMPORARY ART

- Mlaml's South Beach embraces a rich artistic culture. Imagine a dialogue between transportation and art within the urban space
- A journey becomes a sensory experience. Could the journey become an urban artistic encounter? Envision the streetcar and the environment
 - it travels through as ever-changing players on an artistic journey.
 - In the following presentation, we will show how the streetcar can create interaction between the riders and their city,
 - a window into a unique urban perspective.







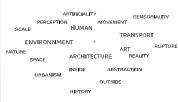




URBAN ART

INTERACTION

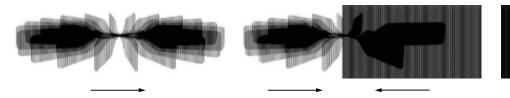






ILLUSION OF MOVEMENT

We are going to develop reflexions around the illusion of movement. Here is the main process we will use in order to use the streetcar as an interaction sphere.



With a static image and a movable grating, we can create simple animations.

MIAMI BEACH _ DESIGNTHEME 3

CONTEMPORARY ART

INTRODUCTION: ILLUSION OF MOVEMENT

THEVIE 3 | CONTEMPORARY ART

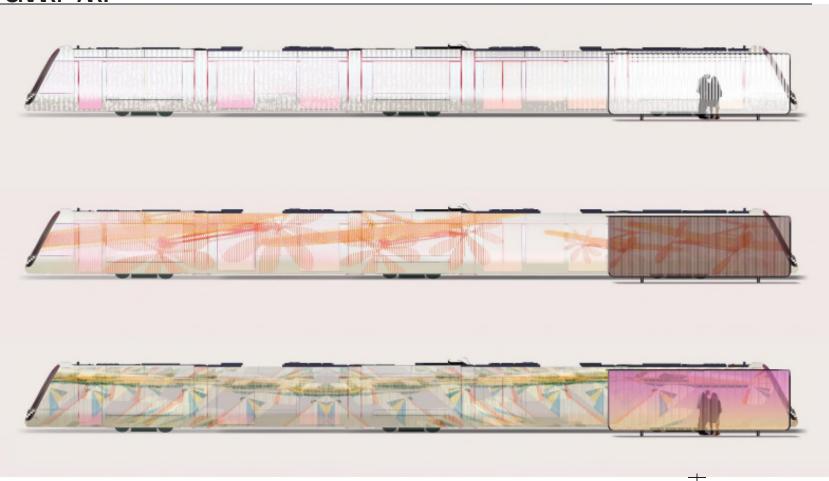
The patterns are resulting a combination of several sequences of a movement. These pieces of art are animated while we watch them in movement, through a matrix grid.



CLOSE UPS





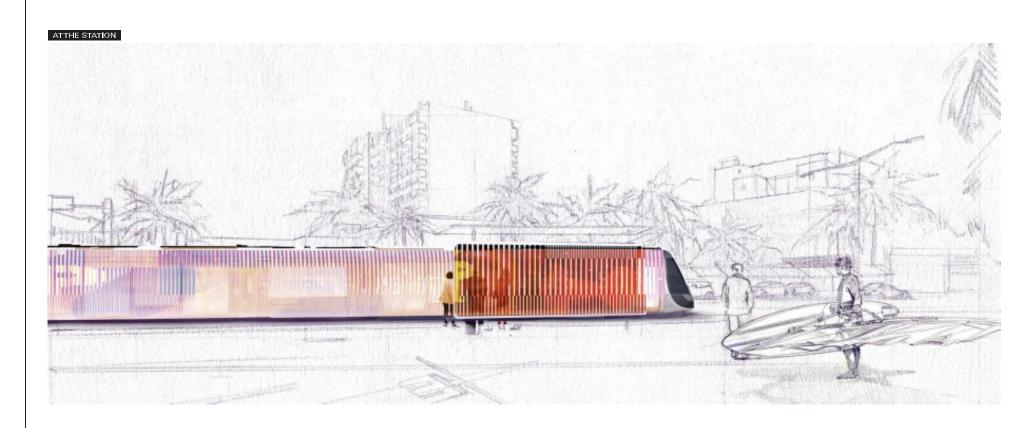


PACKAGES POSSIBI**LITI**ES

MIAMI BEACH _ DESIGNTHEME 3

CONTEMPORARY ART

THEME 3 | CONTEMPORARY ART



THEVIE 3 | CONTEVIPORARY ART

CROSSINGS

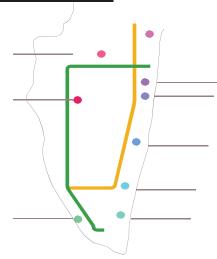
We can create animations between two streetcars crossing, or with glass separations in the middle of the tracks.

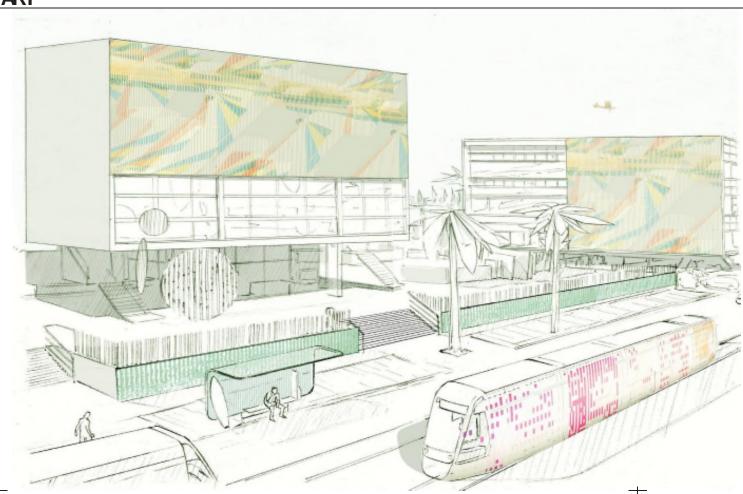


THEME 3 | CONTEMPORARY ART

The streetcar can be considered as a unique way to discover a course of art creations in the city. In fact the streetcar becomes the link between the art and the traveler, and create a dialogue with paintings, prints, sculptures, architectures, near or far from the streetcar. The streetcar is a revealer and a piece of art itself.

MIAMI BEACH URBAN ARTTOUR





THE WHOLE CITY BECOMES AN ANIMATED PIECE OF ART

MIAMI BEACH _ DESIGNTHEME 3

CONTEMPORARY ART



Abeautiful palette of grey tones with contrasting and luminous soft yellow Dynamic, swift, smooth and sophisticated.



POLISHEDSHAPE

PANORAMIC

SPORT

TECH







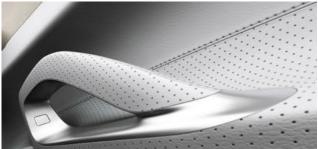


STREAMLINED FLUIDITY

DYNAMIC

PURITY







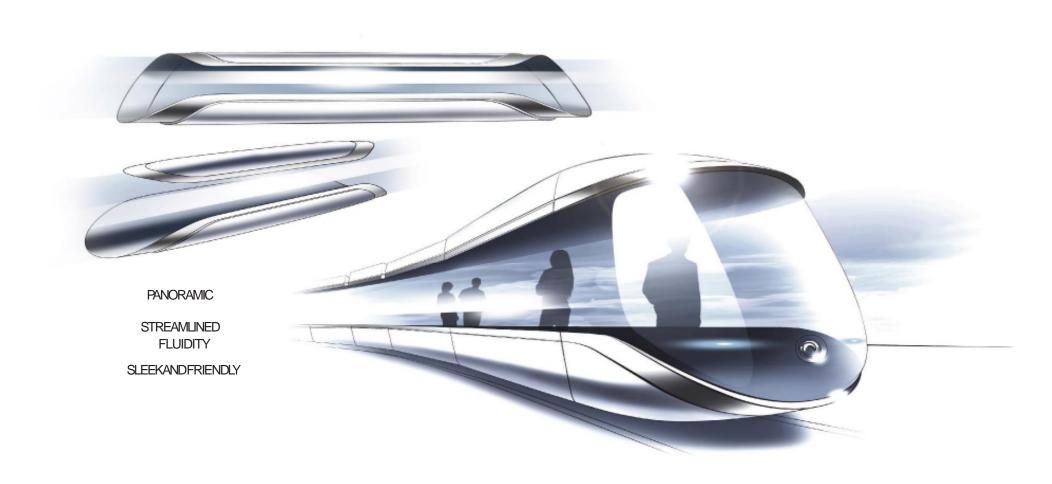
TRANSPARENCY

USERFRIENDLY TECHNOLOGY

GREENMOBILITY



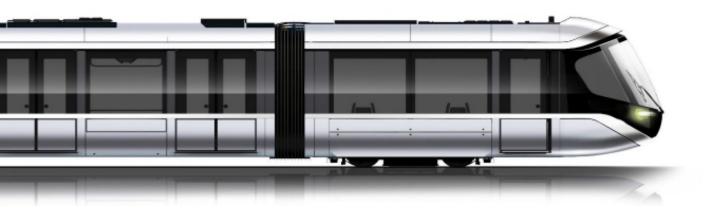


















ALSTOM A InfraRed JACOBS SEICO



ALSTOM A InfraRed JACOBS SECCO





Miami Beach Trans Master Plan
Passenger Comfort
Aesthetic Sensitivity
Transit & Municipal Identity
Connect to Area Attractions

Sea Level Rise and Flooding
Interoperability
GPS Technology
Low Floors / Disabled Accessible
Modern, Innovative Technology

Personal Experience & Team Synergy
Operator-led
P3 Financing Expertise
Rail Systems in Urban Setting
Fully Catenary-less System







EVALUATION CRITERIA









"JUST GET IT DONE!"

- Mayor Philip Levine